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# NEC Versa<sup>®</sup> LXi/SXi

## NEC VersaBay III CD-RW/DVD Drive

Congratulations on purchasing the NEC VersaBay III CD-RW/DVD drive! The NEC VersaBay III CD-RW/DVD drive features the latest in CD-ROM and DVD-ROM technology. It is fully compatible with Kodak Multisession Photo CDs™ and standard audio CDs. You can use your drive to load and start programs from compact discs and DVDs, or play audio CDs while you work or relax. With Microsoft<sup>®</sup> Windows<sup>®</sup>, you can also play full-length CD-i movies. Additionally, with the included application software, you can write information to a CD.

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## NEC VersaBay III CD-RW/DVD Drive Features

The NEC VersaBay III CD-RW/DVD drive offers the features shown in the following figure.

*NEC VersaBay III CD-RW/DVD drive features*



**A** - Emergency Eject Hole    **B** - Release Button    **C** - Status LED

These features offer the following functions:

- Emergency Eject Hole — allows you to manually remove a CD or videodisc from the NEC VersaBay III CD-RW/DVD drive if the eject function is disabled by software or a power failure. To remove the disc, insert the end of a paper clip into the eject hole and push in until you hear a click. Manually open the drawer and remove the CD.
- Release Button — ejects the disc tray. Press this button when the power is on to insert a disc into or remove a disc from the drive.
- Status LED — lights during data read operations. Do not eject the disc or turn off the NEC Versa when the indicator is lit.

## ***Removing a Device from the NEC VersaBay III***

Follow these steps to remove a device from the NEC VersaBay III.

1. Save your files.
2. Either shut down Windows and power off the NEC Versa, or use warm or hot swapping, which is available with the NEC VersaBay III Swapping utility. The Swapping utility is provided on the Application and Driver CD that ships with the system.
3. Close the LCD panel and locate the NEC VersaBay III on your system.

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## Locating the VersaBay III

**NEC Versa LXi systems**



**NEC Versa SXi systems**



**A – VersaBay III**

4. Turn the NEC Versa upside down and locate the release lock (see the figure that follows). Slide the release lock to the unlocked position.
5. Locate the release latch. Slide the release latch to the unlocked position.

### *NEC VersaBay III release lock and latch*

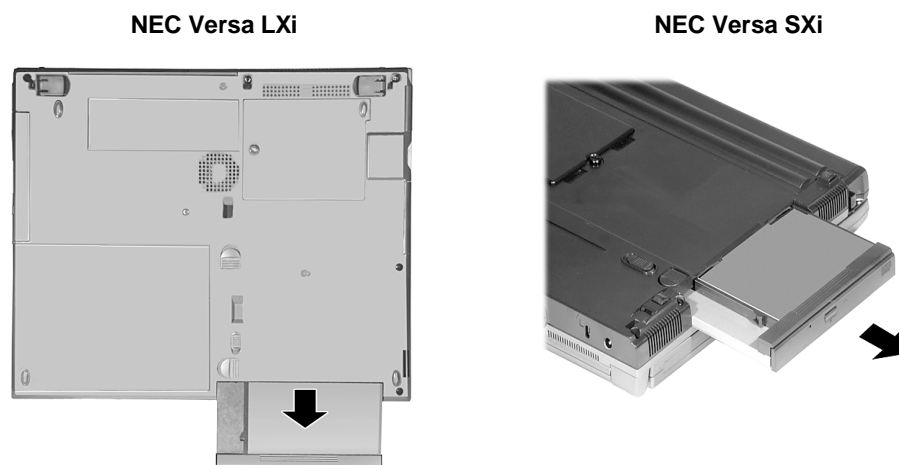


**A - Release Lock      B - Release Latch**

6. Slide the device out of the NEC VersaBay III.

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## *Sliding a device out of the NEC VersaBay III*



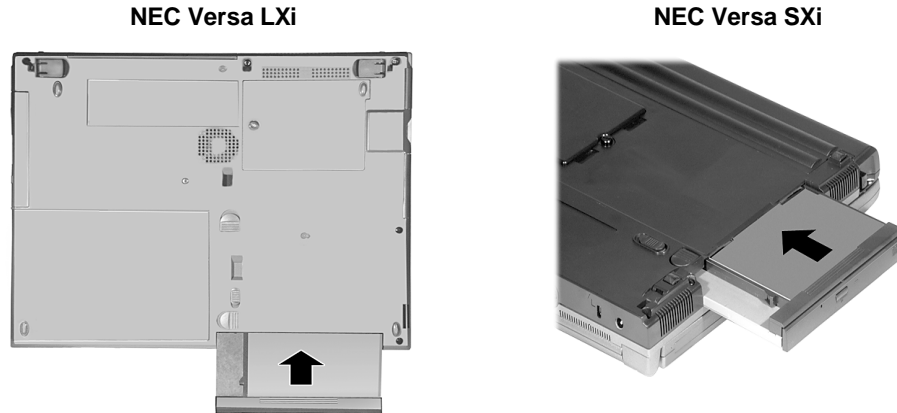
## ***Installing the NEC VersaBay III CD-RW/DVD Drive***

Follow these steps to install the NEC VersaBay III CD-RW/DVD drive in the NEC VersaBay III.

1. Save your files.
2. Shut down Windows and power off the NEC Versa.
3. Close the LCD panel and locate the VersaBay III on your system. For NEC VersaBay III locations, see the previous section, "Removing a Device from the NEC VersaBay III."
4. If there is an NEC VersaBay III device in the NEC VersaBay III, refer to the instructions in the previous section, "Removing a Device from the NEC VersaBay III."
5. Turn the NEC Versa upside down and locate the release lock and the release latch (see the figure on the previous page).
6. Slide the release lock to the unlocked position. Slide and hold the release latch in the unlocked position.
7. Align and install the device into the NEC VersaBay III.

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## Sliding the CD RW/DVD drive into the NEC VersaBay III



8. Slide the release lock to the locked position.
9. Turn the system over, open the LCD panel, and power on the system.

## Installing the NEC CD-RW Software

The NEC CD-RW software CD contains two applications that must be installed after installing the CD-RW/DVD drive into the NEC VersaBay III. The following sections provide the installation instructions for the applications.

### Installing Easy CD Creator

Easy CD Creator is an application that allows you to create data and audio CDs. Follow these steps to install Easy CD Creator.

1. In Windows 98, double click on My Computer, then insert the NEC CD-RW software CD into the drive.  
  
In Windows 2000 and Windows NT, insert the NEC CD-RW software CD into the drive. The Adaptec Master Setup screen appears. If the CD does not load automatically, do the following.
  - Double click on My Computer on the Windows desktop.
  - Double click on the CD drive. The Adaptec Master Setup screen appears. Go to step 3.
2. In Windows 98, the Choose an Option dialog box appears. Select 'Run Adaptec CD-R/RW software installation program' and click OK. The Adaptec Master Setup screen appears.
3. Click Easy CD Creator.
4. The Adaptec Easy CD Creator Setup appears. Click Next.
5. The Software License Agreement appears. Click Yes.
6. The Choose Destination Location dialog box appears. Click Next.
7. Easy CD Creator is installed. When the installation completes, click Finish.
8. A dialog box appears asking if you want to install Adobe Acrobat Reader to access the online help provided by Adobe. Click No if Acrobat Reader is installed. Click Yes to install Acrobat Reader. If you click Yes, Acrobat Reader will be installed after you restart the system. Follow the on-screen prompts to install Acrobat Reader.
9. The Adaptec Master Setup screen appears. Click Exit. Proceed to the next section.

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## Installing DirectCD

DirectCD lets you write files directly to the CD in the CD-RW/DVD drive. Use the following procedure to install DirectCD.

1. If necessary, insert the NEC CD-RW software CD, then click DirectCD on the Adaptec Master Setup screen.
2. The DirectCD Note dialog box appears. Click Yes.
3. The DirectCD Welcome screen appears. Click Next.
4. The Software License Agreement appears. Click Yes.
5. The Choose Destination Location dialog box appears. Click Next.
6. The Select Program Folder dialog box appears. Click Next to install DirectCD.
7. When the installation completes, the Adaptec Master screen appears. Click Exit.
8. Click Finish to restart the system.

## BIOS and Driver Requirements

It is likely that the necessary BIOS, audio drivers, and video drivers for the NEC VersaBay III CD-RW/DVD drive are already installed on your system. Check the following table for the minimum version required for each.

**Minimum BIOS and Driver Requirements for  
NEC VersaBay III CD-RW/DVD Drive**

BIOS/Driver	NEC Versa LXi	NEC Versa SXi
BIOS	BIOS 04	BIOS 13
Audio Drivers:		
—Windows 98	ESS Sound Driver 5.12.01.2045	ESS Sound Driver 5.12.01.2045
—Windows 2000	ESS Sound Driver 5.12.01.2037	ESS Sound Driver 5.12.01.2037
Video Drivers:		
—Windows 98	S3 Video Drivers 7.13.33	ATI Video Driver Build M6.11.31
—Windows 2000	S3 Video Drivers 7.31.16	ATI Video Driver Build M6.11.53

## Running under the Windows NT Operating System

NEC Computers recommends that you disable the Save-to-File power management feature before writing to a CD. The CD-RW software running under Windows NT does not support ACPI functions, and the system may go into a Save-to-File state even though the drive is busy.

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**Note** Disable the Save-to-File feature before creating CDs under Windows NT.

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If the system goes into a Save-to-File state during CD creation, the resulting CD will have errors, and will have to be created again.

While the CD creation does resume once the system comes out of the Save-to-File state, the message, “Errors reported by output device” appears, and the resulting CD does not function properly.

For information on disabling the Save-to-File setting in Windows NT systems, see the BIOS Setup sections of your user’s guide.

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## Recommended Media

NEC Computers recommends the following media branding for best read and write performance:

- Read:
  - 3M Corporation
  - Hitachi
  - IMATION
  - Kao
  - Memorex
  - Mitsubishi Chemical Corporation
  - Panasonic
  - Phillips
  - Ricoh Co. Ltd.
  - SONY
  - Taiyo Yuden Co., Ltd.
  - TDK Corporation
  - Teijin
  - Yamaha
  
- Read/Write:
  - Kao
  - Mitsubishi Chemical Corporation
  - Ricoh Co. Ltd.
  - Memorex

With other media, the sensitivity settings are not configurable so only default settings can be used during CD creation. As a result, the CD being created may not be readable.

## Installing the MGI SoftDVD MAX Software

Once you have installed the NEC VersaBay III CD-RW/DVD drive, and (if necessary) checked your BIOS, audio driver, and video driver versions, install the MGI SoftDVD MAX software.

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**Note** This document is provided with option kit # OP-260-69004, and applies to the following systems:

- NEC Versa **LXi** systems with **16-MB video RAM**
- any NEC Versa **SXi** system

The NEC Versa **LXi** system with **8-MB video RAM** does not support the MGI SoftDVD MAX software. Use the NEC SoftDVD solution with the NEC Versa **LXi** with **8-MB video RAM**.

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The MGI SoftDVD MAX software allows you to play DVD movies and is provided on the "MGI SoftDVD MAX for NEC Versa Notebook Computers" CD included with your CD-RW/DVD drive.

Install the MGI SoftDVD MAX software according to the following steps.

1. Insert the MGI SoftDVD MAX CD in the CD-RW/DVD drive.
2. If you have auto-insert notification enabled, the installation program launches automatically.  
  
If you do not have auto-insert notification enabled, click the Start button and select Run. Browse for the drive letter representing the drive containing the CD, and double click Setup.
3. Several MGI SoftDVD MAX screens appear, followed by a License Agreement window.

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4. Click Yes to accept the conditions in the license agreement. The Welcome window appears.
  5. Click Next. The Choose Destination Location window appears.
  6. Click Next. The installation begins and a status bar appears on the screen showing the progress of the installation.
  7. The MGI Registration window appears.
    - To register by email, click the Send button.
    - To register from the MGI web site, click Register Now.
    - To skip registration for now, click Register Later.
  8. If you clicked either Send or Register Now you'll be prompted for information. Follow the on-screen prompts to complete the registration.
  9. An Information window appears when the installation is complete. Click OK.
  10. Remove the CD from the drive.

### ***Uninstalling the MGI SoftDVD MAX Software***

To uninstall the MGI SoftDVD MAX software from your system, click Start, Settings, and Control Panel. Double click the Add/Remove Programs icon. Double click the **MGI SoftDVD MAX** entry in the Add/Remove Programs window and follow the prompts.

### ***Using the MGI SoftDVD MAX Software***

The following sections describe how to launch the MGI SoftDVD MAX software, and how to access online help. They also describe:

- conditions that can affect playback
- configuring power management settings for playing movies
- diagnosing incorrect power management settings
- the password feature
- settings you should use when displaying movies on a television set connected to your computer.

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**Note** Power management must be turned off for the MGI SoftDVD MAX software to function smoothly. Be sure to configure power management settings before playing movies.

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### ***Starting the MGI SoftDVD MAX Software***

MGI SoftDVD MAX is easy to use, with self-explanatory buttons and detailed online help.

- To start the DVD Player you can either:
  - select Start, Programs, MGI SoftDVD MAX, and MGI SoftDVD MAX; or
  - double click the MGI SoftDVD MAX icon on the Windows desktop.

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**Note** You will be prompted with a Warning message if:

- you try to launch MGI SoftDVD MAX if other applications are already running. Click OK to clear the message, and then exit all other applications for optimal performance.
  - you try to launch MGI SoftDVD MAX if your system is configured for power management. Click OK to clear the message, and then change your power management settings.
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To change your system's power management settings for playing DVD movies, see the section, "Configuring AC Power Management for Playing Movies."

- To access the online help you can either:
  - click the question mark just below the movie screen (located about an inch from the right edge of the window); or
  - Press **F1**.



**CAUTION** NEC Computers does *not* recommend playing DVD movies with MGI SoftDVD MAX while the system is running on battery power.

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### **Conditions Affecting DVD Performance**

The following conditions can affect DVD movie playback:

- a damaged or dusty DVD
- a processor that is too slow to support DVD movie playback
- playing a DVD movie while the system is running on battery power
- AC power management settings that are enabled.

Performing the following activities during playback can impede DVD playback:

- changing screen resolution
- changing the world region setting.

Some DVD movie titles are not configured to tap all the features of the CD-RW/DVD drive or MGI SoftDVD MAX. Some DVD titles:

- cannot be ejected during play (you must stop the movie, and then eject the DVD)
- do not enforce their advertised parental control ratings
- do not display chapter number information
- do not display the current DVD time
- do not allow audio track selection through the MGI SoftDVD MAX control panel (although they do allow it from the MGI SoftDVD MAX menu)
- do not allow navigation with the mouse (you must use the arrow keys instead).

### **Configuring AC Power Management for Playing Movies**

You must turn off most of the power management settings in the Power Schemes window for MGI SoftDVD MAX to play DVD movies properly. To access these settings open the Control Panel, and double click the Power Management icon.

Set the following fields in the 'Plugged in' column to 'Never':

- System standby
- Turn off monitor
- Turn off hard disks
- System hibernates (except Windows 98SE systems)

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**Note** NEC Computers recommends that you *not* close the LCD panel while a DVD movie is playing. If the LCD panel is lowered during movie play, systems may hibernate, recording system state to RAM (Save-to-Ram) or a disk (Save-to-File).

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If you alter these AC power management settings, be sure to change them back before playing a movie with MGI SoftDVD MAX.

For complete information on configuring power management, see your NEC Versa user's guide.

### ***Diagnosing Incorrect Power Management Settings***

If your system goes into a timeout during a movie, one of the following conditions may occur when you bring the system out of the timeout:

- if you are playing a movie on your television set, the system might go into 'Simultaneous mode' (in which the movie displays on the television set *and* your computer's LCD panel)
- the movie might restart from the beginning
- the audio might cut out
- the system might hang.

See "Configuring AC Power Management for Playing Movies" for instructions on configuring AC power management correctly for playing DVD movies.

For detailed information on power management, see your NEC Versa user's guide.

### ***Using the Password Feature***

The password feature allows you to set parental controls for playing rated videodiscs. You can set protection levels according to Movie Industry standards, so you can control which videodiscs can be played.

Protection levels are password-protected. Note that if the protection level is changed, that level is maintained even after the system is rebooted, until the password is entered again and the level is changed back.

For more information on setting and using passwords, see the MGI SoftDVD MAX online help.

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**Note** Some DVD movies do not enforce the parental controls that are designated in their advertised rating. This is not related to MGI SoftDVD MAX password protection.

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### ***Displaying Movies on a Television Set***

If you connect a television set to your system so you can watch the movie on it instead of your system's LCD screen, set TV Out to Primary in the Display Properties window.

To configure the television set as the primary display do the following:

1. Connect the video cable from your television set to the TV Out connector on your computer.
2. Right click the Windows desktop and click Properties. The Display Properties window appears.
3. Click the Settings tab and click the Advanced button. Click the Displays tab.
4. Select the Television display field. Click the Primary button. Click OK twice.

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## **Using a Retail Version of the Windows 2000 Operating System**

NEC Computers configures your computer at the factory with the correct IDE Controller mode settings for optimal CD-RW/DVD drive audio and video performance. These settings are preserved if you reinstall your operating system using the Product Recovery CD provided by NEC Computers.

These settings are not the default in retail versions of the Windows 2000 operating system. Should you install a retail version of Windows 2000 operating system instead of the version provided by NEC Computers, the correct settings are overwritten. You can manually change them back to optimize CD-RW/DVD drive performance by following these steps.

1. From the Windows Desktop, right click My Computer. Click Properties. In the System Properties window, click the Hardware tab. In the Device Manager area, click the Device Manager button.
2. In the Device Manager window, if necessary, double click the IDE ATA/ATAPI controllers icon to display its sub-items.
3. Double click either Primary IDE Channel, or Secondary IDE Channel (according to which one your DVD-ROM drive is on). The IDE Channel Properties dialog box opens.
4. Click the Advanced Settings tab. In the Device 0 area, change Transfer Mode: to "DMA if available."
5. In the Device 1 area, change Transfer Mode: to "DMA if available."
6. Click OK. A dialog box appears indicating that your system settings are changed and prompting you to restart your computer.
7. Click Yes to restart your computer to initiate the settings change.

## **Specifications**

NEC VersaBay III CD-RW/DVD drive specifications follow and are standard unless stated otherwise.

- Power  
Supply : +5 V, single source
- Speed  
Read: max 24X  
Write: max 4X
- Data Transfer Rate  
DVD: 3,357-8,112 KB/s  
DVD-VIDEO: 2,163-3,245 KB/s  
CD: Mode 1: 1,552-3,600 KB/s, Mode 2: 1,769-4,104 KB/s
- Operating and Storage Conditions  
Shock: 1.5 G (14.7ms)/read, 1.5 G (14.7 ms)/write  
Vibration: 0.25G/read, 0.25 G/write  
Temperature:  
41° – 113° F (5° – 45° C) operating  
14° – 140° F (-10° – 60° C) storage  
Humidity:  
8 – 80% RH operating  
5 – 90% RH storage

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**NEC**

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